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10/556,710	11/11/2005 Stefan Lidbrink		P16894-US1	3686
27045 ERICSSON IN	7590 08/26/2008 C.		EXAMINER	
6300 LEGACY		DOAN, PHUOC HUU		
M/S EVR 1-C-1 PLANO, TX 75			ART UNIT	PAPER NUMBER
			2617	
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			08/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicat	ion No.	Applicant(s)		
Office Action Summary		10/556,7	710	LIDBRINK, STEFAN		
		Examine	er	Art Unit		
		PHUOC	H. DOAN	2617		
 Period for	The MAILING DATE of this commun	ication appears on th	ne cover sheet wit	h the correspondence ac	ddress	
A SHO WHICH - Extens after S - If NO programmer of the control of	PRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M ions of time may be available under the provisions IX (6) MONTHS from the mailing date of this comre period for reply is specified above, the maximum st to reply within the set or extended period for reply ply received by the Office later than three months a patent term adjustment. See 37 CFR 1.704(b).	IAILING DATE OF T of 37 CFR 1.136(a). In no e nunication. atutory period will apply and will, by statute, cause the ap	THIS COMMUNIC event, however, may a re- will expire SIX (6) MONI oplication to become ABA	CATION.  Sply be timely filed  FHS from the mailing date of this of the company o		
Status						
2a)⊠ ∃ 3)□ \$	Responsive to communication(s) file This action is <b>FINAL</b> . Since this application is in condition closed in accordance with the practi	2b)∏ This action is for allowance excep	ot for formal matte	•	e merits is	
Dispositio	on of Claims					
4 5)□ ( 6)⊠ ( 7)⊠ (	Claim(s) 11,12 and 14-20 is/are per a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) 11,12,16-18 and 20 is/are claim(s) 14,15 and 19 is/are objected Claim(s) are subject to restrict on Papers	re withdrawn from c rejected. ed to.	onsideration.			
9)□ ⊤	he specification is objected to by th	e Examiner.				
F	The drawing(s) filed on is/are: Applicant may not request that any obje Replacement drawing sheet(s) including The oath or declaration is objected to	ction to the drawing(s) the correction is requ	be held in abeyand ired if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 C	` '	
Priority ur	nder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2)  Notice 3) Informa	s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (Fation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	Paper No(s	ummary (PTO-413) )/Mail Date formal Patent Application _·		

#### **DETAILED ACTION**

### Response to Arguments

1. Applicant's arguments filed 06/05/08 have been fully considered but they are not persuasive.

Applicant argues, Hunt does not disclose registering position related data comprising the locations for mobile users (MS) together with what service is used by each user in terms of bit rate; and, creating an estimation of the traffic density within the cell as a function of said position related data, and selecting an optimal site for a new base station as a function of said position related data or said traffic density.

In response, Hunt clearly disclose the same feature with registering position related data comprising the locations for mobile users (MS) together with what service is used by each user in terms of bit rate; and creating an estimation of the traffic density within the cell as a function of said position related data, and selecting an optimal site for a new base station as a function of said position related data or said traffic density based on the control channel and mobile device where the position of mobile device related the user data to number of cells based on control sub-channel management will require high data rates, but it will be sent in a packet format such as short blocks of data, rather than continuous transmission (par

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[0022-0024]), and also clearly shows the macro cell BS 104 may also instruct the chosen pico cell BS 108 to vary transmission parameters such as data rate to modify the quality of the chosen link based on the position related data to allow roaming users to connect directly to their home network for control ([0029-0031], [0034]).

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 11-12, 16-18, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Hunt (US Pub No: 2003/0013452).

As to claim 11, Hunt discloses a method in a cellular mobile telecommunication system for cell planning and preparing for a cell split "Fig. 1, items 106, 104; a plurality of pico cells" when a cell tends to get congested or overloaded (page 1, par. [0006]), said method comprising the steps of: registering position related data comprising the locations for mobile users (MS) together with what service is used

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by each user in terms of bit rate (page 2, par.[0022-0024]; "control channel and mobile device where the position of mobile device related the user data to number of cells based on control sub-channel management will require high data rates, but it will be sent in a packet format such as short blocks of data, rather than continuous transmission"); and, creating an estimation of the traffic density within the cell as a function of said position related data (page 3 par. [0029-0031]; "the macro cell BS 104 may also instruct the chosen pico cell BS 108 to vary transmission parameters such as data rate to modify the quality of the chosen link based on the position related data"); and selecting an optimal site for a new base station as a function of said position related data or said traffic density (page 3, par [0034]; "to allow roaming users to connect directly to their home network for control based on the best signal to SIR").

As to claim 12, 17, Hunt further discloses the method of claim 11, further comprising the step of registering the path losses experienced on the radio channels of the mobiles (page 3, par [0029]; "path losses based on the measurement of Signal to Interference Ration (SIR)").

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As to claim 16, Hunt discloses a cell planning tool for preparing for a cell split "Fig. 1, items 106, 104; a plurality of pico cells" in a cellular telecommunication system, comprising: a control network for registering the location of mobile stations rate (page 2, par.[0023-0024]; "control channel and mobile device where the position of mobile device related the user data to number of cells based on control sub-channel management"); means for registering the services used by the mobile stations; and, means for, based on the location and service data, estimating the traffic density of the cell (page 3 par. [0029-0031]; "the macro cell BS 104 may also instruct the chosen pico cell BS 108 to vary transmission parameters such as data rate to modify the quality of the chosen link based on the position related data"); and means for selecting an optimal site for a new base station as a function of said position related data or said traffic density (page 3, par [0034]: "to allow roaming users to connect directly to their home network for control based on the best signal to SIR").

**As to claim 18**, Hunt further discloses the cell planning tool of claim 16, wherein an optimal location for a new site is established in a cell planning system node (page 3, par. [0033-0034]).

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As to claim 20, Hunt discloses a cellular telecommunication system comprising base stations and mobile stations in communication with each other in a cell under supervision of a control network including a cell planning system node which collects data from the telecommunication system relating to the location of the mobile stations (page 2, par. [0023-0025]; "in Fig. 2, the cellular network providing more effective management of a radio link the system and a mobile station based on the cell structure and allowing a communication link to be split between two types of cells, such that control data is passed over a control sub channel, and cover the user moving around without the need for an excessive number of handovers between cells"), their path losses on their radio channels and the services they use, and wherein said cell planning system node comprises data collecting and calculation equipment which predicts an optimal place for a new base station as a function of said location, path loss or service data "page 3, par. [0034]; to allow roaming users to connect directly to their home network for control when users moving into new base station such a hand over, and allow roaming users to connect directly to their home network for control based on the best signal to SIR").

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## Allowable Subject Matter

3. Claims 14-15, 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUOC H. DOAN whose telephone number is 571-272-7920. The examiner can normally be reached on 9:30 AM - 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, VINCENT HARPER can be reached on 571-272-7605. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VINCENT P. HARPER/ Supervisory Patent Examiner, Art Unit 2617 Application/Control Number: 10/556,710

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